

REISSUE PATENT APPLICATION  
Docket No. 1941-70

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Name of Patentees: Paul J. BRUINSMA, Suresh BASKARAN, Jagannadha R. BONTHA, Jun LIU

Patent No.: 5,922,299

Patent Issue Date: July 13, 1999

Title of Invention: MESOPOROUS SILICA FILMS, FIBERS AND POWDERS BY  
EVAPORATION

Assistant Commissioner for Patents  
Washington, D.C. 20231

REISSUE APPLICATION BY THE ASSIGNEE,  
OFFER TO SURRENDER PATENT AND ASSENT OF ASSIGNEE

Battelle Memorial Institute, Inc. is the assignee of the entire interest in the original patent.

I offer to surrender the original patent.

☒ A certificate under 37 CFR 3.73(b) is attached.

I am authorized to act on behalf of the assignee, and consent to the reissue application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application, any patent issued thereon, or any patent to which this declaration is directed.

Name of assignee: Battelle Memorial Institute

Signature of person  
signing for assignee:



Date:

9/17/2003

Typed/Printed Name: Vincent A. Branton  
Title: Contracting Officer for  
Battelle Memorial Institute

REISSUE PATENT APPLICATION  
Docket No. 1941-70**STATEMENT UNDER 37 CFR 3.73 (b)**

Applicant/Patent Owner: Battelle Memorial Institute

Patent No.: 5,922,299

Issue Date: July 13, 1999

Entitled: MESOPOROUS SILICA FILMS, FIBERS AND POWDERS BY EVAPORATION

Battelle Memorial Institute, Inc., an Ohio Corporation, states that it is:

1. ☒ the assignee of the entire right, title and interest; or
2. ☐ an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel 8864, Frame 0259 or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

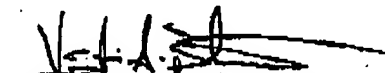
- ☒ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

Date: 9/17/2003

Signature

Typed or printed name: Vincent A. Brannon  
Title: Contracting Officer for Battelle Memorial Institute

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NO.850 P.2

E-156001P



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

FEBRUARY 12, 1998

PTAS

PAUL ZIMMERMAN  
INTELLECTUAL PROPERTY SERVICES, K1-53  
902 BATTELLE BLVD.  
P.O. BOX 999  
RICHLAND, WA 99352



\*100599935A\*

Decket Y ☒ *am*  
Database Y ☒ *92*  
Debit Y ☒ *am*  
Number *N/A*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723... PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/26/1997

REEL/FRAME: 8964/0259  
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
BRUINSMA, PJ

DOC DATE: 08/26/1997

ASSIGNOR:  
BASKARAN, S

DOC DATE: 08/26/1997

ASSIGNOR:  
BONTHA, JR

DOC DATE: 08/26/1997

ASSIGNOR:  
LIU, J

DOC DATE: 08/26/1997

ASSIGNEE:  
BATTELLE MEMORIAL INSTITUTE  
902 BATTELLE BLVD.  
K1-53  
RICHLAND, WASHINGTON 99352

SERIAL NUMBER: 08753573  
PATENT NUMBER:

FILING DATE: 11/26/1996  
ISSUE DATE:

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FEB 23 1998

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SEP-25-2003 THU 12:13 PM MARGER JOHNSON

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8864/0259 PAGE 2

TONYA LEE, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

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UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
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Washington, D.C. 20231



## AUTHORIZATION TO CHARGE ADDITIONAL FEES TO DEPOSIT ACCOUNT

FEBRUARY 12, 1998

TO: OFFICE OF FINANCE  
FROM: ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS  
SUBJECT: DEPOSIT ACCOUNT CHARGE(S)

CHARGE THE DEPOSIT ACCOUNT LISTED BELOW ADDITIONAL FEE(S) AS INDICATED BELOW. AUTHORIZATION TO CHARGE ADDITIONAL FEES HAS BEEN PROVIDED PER THE ATTACHED COVER SHEET, OR BY DIRECT CONTACT WITH THE CUSTOMER.

DEPOSIT ACCOUNT NUMBER: 02-1275  
PROPERTY NUMBER: 08753573

## RECORDING FEES:

FEE CODE: 581 AMOUNT: 40

IF YOU HAVE ANY QUESTIONS REGARDING THIS NOTICE, YOU MAY CONTACT THE INDIVIDUAL WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723.

TONYA LEE, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

TRADEMARK SERVICE FEES:	FEE CODE:
RECORDING FIRST MARK	481
RECORDATION SECOND AND	482
SUBSEQUENT MARK IN SAME DOCUMENT	
LABOR CHARGES FOR SERVICES PER HOURS	484
OR FRACTION THEREOF	
UNSPECIFIED OTHER SERVICES	485

## PATENT SERVICE FEES:

RECORDING EACH PATENT ASSIGNMENT, 581

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P.5

AGREEMENT, OTHER PAPER, PER PROPERTY	
LABOR CHARGES FOR SERVICES PER HOUR	584
(\$30) OR FRACTION THEREOF	
UNSPECIFIED OTHER SERVICES	585

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01-08-1998

08/753573

PTO-1595

RECORD

U.S. Dept. of Commerce  
Patent and Trademark Office

Our Reference:

100599935

To the Honorable Commissioner of Patents and Trademarks: Please record the execution of original document or copy thereof.

1. Name of conveying party(ies):

PJ Bruinsma, S Baskaran, JR Bontha,  
and J LiuAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Execution Date: 8/26/97

2. Name and Address of receiving party(ies):

Name: Battelle Memorial Institute K1-53

Internal Address: K1-53

P.O. Box 999

Intellectual Property Services

Street Address: 902 Battelle Blvd.

Intellectual Property Services

City: Richland State: WA Zip: 99352

Additional name(s) & addresses attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date  
of the application is: 8/26/97

A. Patent Application No.(s):

B. Patent No.(s):

08/753573

Additional numbers attached? ☐ Yes ☒ No5. Name and address of party to whom  
correspondence concerning document  
should be mailed:

Name: Paul W. Zimmerman

Internal Address: K1-53

P.O. Box 999

Intellectual Property Services

Street Address: 902 Battelle Blvd.

City: Richland State: WA Zip: 99352

6. Total number of applications  
and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

#02-1275 (Payer No. 005055)

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature:

To the best of my knowledge and belief, the foregoing information is true and correct,  
any attached copy is a true copy of the original document.

Paul W. Zimmerman

Name of person signing

Paul W. Zimmerman 9/7/97

Signature

Date

Total number of pages comprising cover sheet: 5

Mail documents to be recorded with required cover sheet information to:

Assistant Commissioner for Patents  
Box Assignments  
Washington, D.C. 20231

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NO. 854 P. 7

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. PATENT

File No. E-1560 CIP

A S S I G N M E N T

Paul J. Bruinsma  
Suresh Baskaran  
Jagannadha R. Bontha  
Jun Liu

to

Battelle Memorial Institute

WHEREAS we, Paul J. Bruinsma, of Kennewick, in the County of Benton, and State of Washington; Suresh Baskaran, of Kennewick, in the County of Benton, and State of Washington; Jagannadha R. Bontha, of Richland, in the County of Benton, and State of Washington; and Jun Liu, of West Richland, in the County of Benton, and State of Washington, have made certain inventions in MESOPOROUS-SILICA FILMS, FIBERS, AND POWDERS BY EVAPORATION, for which we are about to make application for Letters Patent of the United States; and

WHEREAS Battelle Memorial Institute, a corporation of Ohio, organized and existing under the laws of the State of Ohio, and having a place of business in the City of Richland, Washington, is desirous of acquiring an interest in the said invention and in any patent or patents to be obtained therefor;

NOW, THEREFORE, To All Whom It May Concern, be it known that, for and in consideration of the sum of One Dollar (\$1.00) each, and other good and valuable considerations, the receipt of which is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto the said Battelle Memorial Institute, the entire right, title, and interest in and to the invention shown, described, or claimed therein, and the full and exclusive right and title to the said application, executed by us on the 24<sup>th</sup> day of August, 1997, preparatory to obtaining Letters Patent of the United States therefor; and in and to any extensions, reissues, divisions, or renewals thereof; and we do hereby authorize and request the Commissioner of Patents or other proper Officer, to issue such Letters Patent, or any of them, to the said Battelle Memorial Institute, as the assignee of our entire right, title, and interest in and to the same for the sole use and benefit of the said Battelle Memorial Institute, and its successors or assigns.



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And we further covenant and agree that we will, at the request and expense of the said Battelle Memorial Institute, execute such other and further assurances of title as may be necessary or proper to fully convey the interest herein sought to be conveyed; that we will, at the request and expense of the said Battelle Memorial Institute, execute such application papers as may be desired by the said Battelle Memorial Institute, for the filing of any division or renewal of the application herein conveyed, or for reissues or extensions, of any Letters Patent that may be granted upon said application, and will execute such Supplemental Oaths and Preliminary Statements, or other papers as desired by the said Battelle Memorial Institute.

And we further assign unto the said Battelle Memorial Institute, the whole right, title, and interest to the invention disclosed in the application throughout all countries foreign to the United States, and do hereby authorize the said Battelle Memorial Institute to apply for patents therefor in its own name in countries where such procedure is proper and to claim the benefit of the International Convention and do agree to execute applications for the said invention in the several countries where it is necessary that the same be executed by the inventors, and to execute assignments of such applications and the patents to be obtained therefor to the said Battelle Memorial Institute, the assignee herein, as well as all other necessary papers.

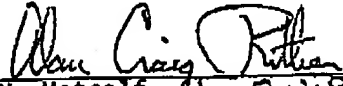
-----  
IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Richland, Washington, this 19 day of August, 1997.

  
Paul J. Bruinsma

STATE OF WASHINGTON }  
COUNTY OF BENTON } ss.

This 19<sup>th</sup> day of August, 1997, before me a Notary Public in and for the County aforesaid, personally appeared Paul J. Bruinsma, personally known to me and known to be the person described in and who executed the foregoing assignment and acknowledged the same to be his voluntary act and deed, and that he executed the same for the uses and purposes therein set forth.

SEAL

  
~~Alan H. Metcalf~~ Alan Craig Ritter  
Notary Public  
Commission Expires 12/20/98  
1/30/01 ACR

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NO.850 P.9

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Richland, Washington, this 22<sup>nd</sup> day of August, 1997.

Suresh Baskaran  
Suresh Baskaran

STATE OF WASHINGTON }  
COUNTY OF BENTON } ss.

This 22<sup>nd</sup> day of August, 1995, before me a Notary Public in and for the County aforesaid, personally appeared Suresh Baskaran, personally known to me and known to be the person described in and who executed the foregoing assignment and acknowledged the same to be his voluntary act and deed, and that he executed the same for the uses and purposes therein set forth.

SEAL

Judy E. T. Hall  
Judy E. T. Hall  
Notary Public  
Commission Expires 12/20/98  
4-5-99

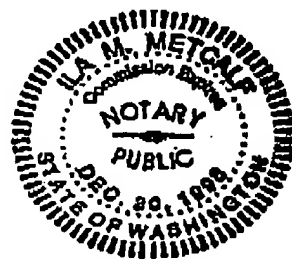
IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Richland, Washington, this 26 day of August, 1997.

B. Jagannadha R.  
Jagannadha R. Bontha

STATE OF WASHINGTON }  
COUNTY OF BENTON } ss.

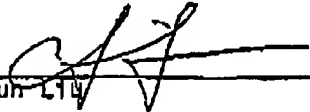
This 26 day of August, 1997, before me a Notary Public in and for the County aforesaid, personally appeared Jagannadha R. Bontha, personally known to me and known to be the person described in and who executed the foregoing assignment and acknowledged the same to be his voluntary act and deed, and that he executed the same for the uses and purposes therein set forth.

SEAL



Ila M. Metcalf  
Ila M. Metcalf  
Notary Public  
Commission Expires 12/20/98


IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Richland, Washington, this 22 day of August, 1997.

  
Jun Liu

STATE OF WASHINGTON }  
COUNTY OF BENTON } ss.

This 22<sup>nd</sup> day of August, 1997, before me a Notary Public in and for the County aforesaid, personally appeared Jun Liu, personally known to me and known to be the person described in and who executed the foregoing assignment and acknowledged the same to be his voluntary act and deed, and that he executed the same for the uses and purposes therein set forth.

SEAL

  
Judy E. Holla  
Notary Public  
Commission Expires 12/20/08  
-1-5-99

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